PURCHASED 11-87

MFJ VHF BAND EXPANDER

MODEL MFJ-312B

OWNER'S MANUAL

CAUTION: Read All Instructions Before Operating Equipment.

MFJ ENTERPRISES, INC.

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INTRODUCTION

The MFJ-312B VHF BAND EXPANDER is a sensitive receiving converter for monitoring the Public Service band on a standard synthesized two meter transceiver. The MFJ-312B tunes 154-158 MHZ police band and 160-164 weather band.

INSTALLATION

1. Connect a coax cable from the two meter transceiver to the RECEIVER jack on the converter.

2. Connect the antenna to the ANTENNA jack on the converter.

3. Connect the RED wire from the converter to a POSITIVE (+) 12v power source. Connect the BLACK wire to a NEGATIVE (-) or GROUND connection. Use ONLY with a NEGATIVE GROUND SYSTEM.

4. If a two meter power amp is used, connect the converter between the rig and power amp.

OPERATION

1. Turn on the converter by pushing the ON/OFF button in.

2. For reception in the 154-158 MHZ range, (set the range switch out on the MFJ-312B), set the two meter rig 10 MHZ below the desired frequency. If you want to monitor 156.20 then set the two meter rig to 146.20. For reception in the 160-164 MHZ range, push the range switch in to 160-164 range and set the two meter rig 16 MHZ below the desired range. If the NOAA WETHER RADIO frequency of 162.55 is desired, set the two meter rig to 146.55. The three NOAA frequencies are:

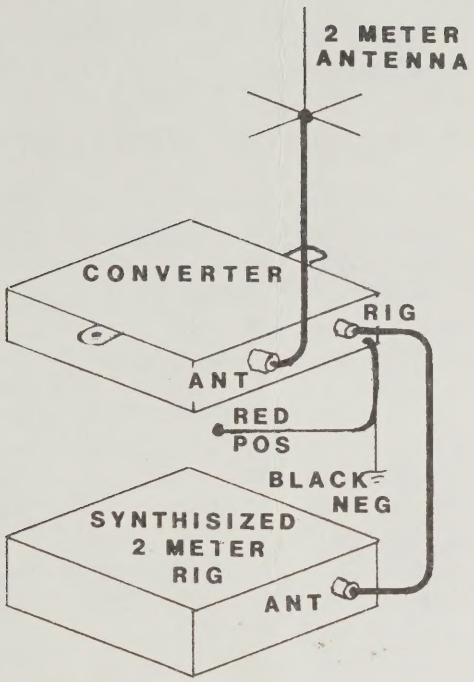
VHF	2 METER
162.400	146.40
162.475	146.475
162.550	~~162.550~~ 146.550

3. For normal two meter operation (full transmitt and receive) turn the converter off, the converter is fully bypassed.

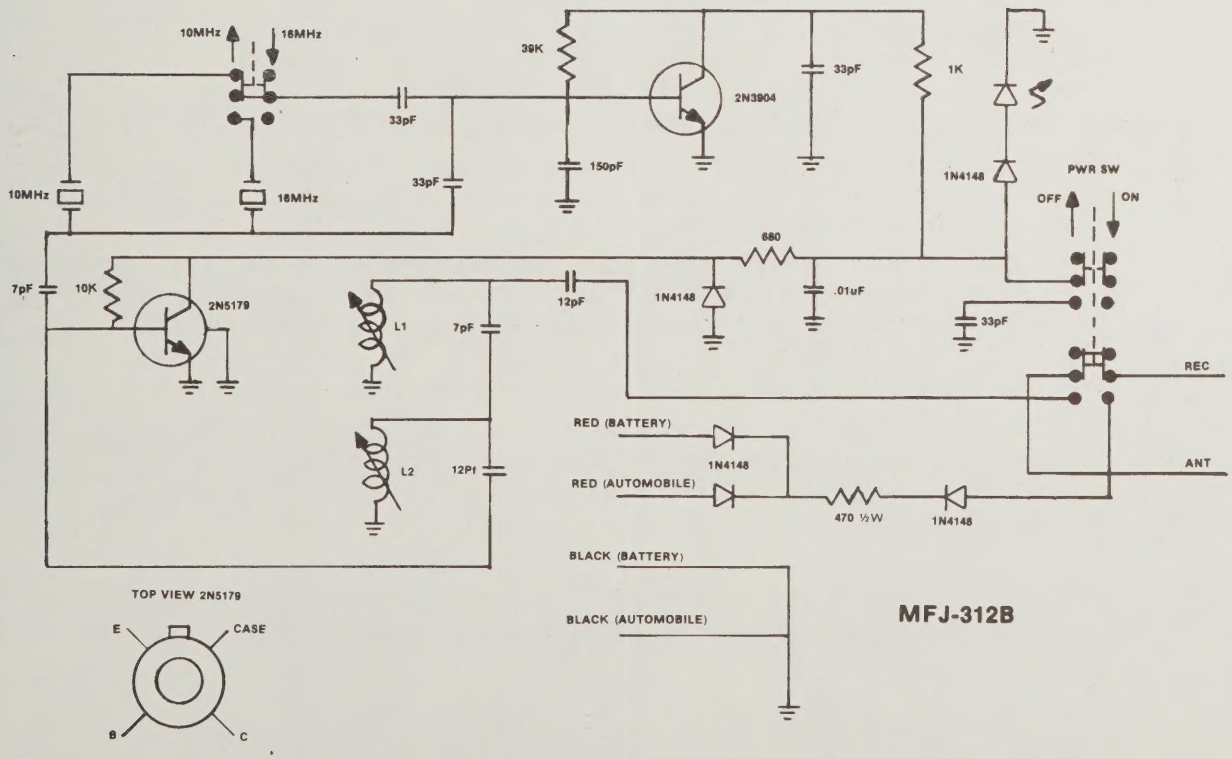
NOTE: Signals in the two meter band may be monitored while the converter is on but at reduced sensitivity.

DO NOT TRANSMIT INTO THE CONVERTER WHILE IT IS ON!

The converter is protected against accidental transmissions up to 25W but the high SWR is hard on the final transistors in the transmitter.



CONNECTION DIAGRAM



MFJ-312B

FULL 12 MONTHS WARRANTY

MFJ Enterprises, Inc. warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free of defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, cancelled check, credit card or money order receipt, etc.) describing the product to establish the validity of warranty claim and must submit the original or a machine-reproduction of such proof-of-purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery of proof-of-purchase shall be cause to void any and all warranty terms immediately.
2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashier's check or money order for **$4.00** covering postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof-of-purchase and a **$4.00** personal check, cashier's check or money order must be provided to cover postage and handling.
4. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation is available by calling (601) 323-5869.
5. This warranty does not apply to kits sold or manufactured by MFJ Enterprises, Inc.
6. Wired and tested PC board products are covered by this warranty provided **only the wired and tested PC board is returned.** Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepaired.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ product.
8. **Out-of-Warranty Service:** MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is delivered prepaid. All charges will be shipped COD to the owner.
9. This warranty is given in lieu of any other warranty express or implied.
10. MFJ Enterprises, Inc. reserves the right to make changes or improvement in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to **MFJ Enterprises, Inc., 921A Louisville Road, Starkville, Mississippi 39759, USA** and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.
12. This warranty gives you specific rights, and you may also have other rights which vary from state to state.